

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
N.M. Oil Cons. DivisionAPPLICATION FOR PERMIT TO DRILL OR DEEPEN  
1625 N. French Dr.  
Hobbs, NM 88240

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

POGO PRODUCING COMPANY (RICHARD WRIGHT 915-685-8140)

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (915-685-8100)

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1170' FNL &amp; 2620' FWL SEC. 25 T22S-R32E LEA CO. NM

At proposed prod. zone SAME

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 30 miles East of Carlsbad New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

1170'

## 16. NO. OF ACRES IN LEASE

960

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

990'

## 19. PROPOSED DEPTH

9200'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3758' GR.

## 22. APPROX. DATE WORK WILL START\*

WHEN APPROVED

23. ~~Carlsbad Controlled Water Basin~~ PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor 20"	NA	40'	Cement to surface with Redi-mix
17½"	H-40 13 3/8	48	1000'	1000 Sx. circulate cement to surf
11"	HCK-55, J-55 8 5/8"	32	4700'	1800 Sx. " " " "
7 7/8"	N-80, J-55 5½"	17	9200'	1450 Sx Two Stage TOC EST. 3700'

1. Drill 25" hole to 40". Set 40' of 20" conductor and cement to surface with Redi-mix.
2. Drill 17½" hole to 1000'. Run and set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" 35:65:6 POZ/GEL Mix @ 12.4 # PPG, tail in with 200 Sx. of Class "C" Cement + 2% CaCl Mix @ 14.8 PPG. Circulate cement to surface.
3. Drill 11" hole to 4700'. Run and set 4700' of 8 5/8" casing as follows: 500' of 8 5/8" 32# HCK-55 ST&C, 4200' of 8 5/8" 32# J-55 ST&C. Cement with 1600 Sx of Class "C" LITE 35:65:6 POZ/GEL + 5% Salt Mix @ 12.8#/PPG, tail in with 200 Sx. of Class "C" + 2% CaCl, Mix @ 14.8# PPG, circulate cement to surface.
4. Drill 7 7/8" hole to 9200'. Run and set 9200' of 5½" casing as follows: 2200' of 5½" 17# N-80 LT&C, 6000' of 5½" 17# J-55 LT&C, 1000' of 5½" 17# N-80 LT&C. Cement in 2 Stages with DV Tool at 6000'±. Cement 1st stage with 650 Sx. of Class "H" cement + with free/ water & Water Loss Control, Mix @ 15.7 PPG, cement 2nd stage with 800 Sx. of Class "C" cement + 12 PPS Gilsonite, Mix at 14.09 PPG. Estimate top of cement 3700' from surface.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Joe T. LARA TITLE Agent

(This space)

OPER. OGRID NO. 17891

PERMIT NO.

PROPERTY NO. 9316

Application at  
CONDITIONS

POOL CODE 51683

EFF. DATE 5-6-03

API NO. 30-025-36274

APPROVAL DATE

equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED BY

/s/ JOE G. LARA

TITLE

FIELD MANAGER

DATE

FEB 07 2003

\*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30-025-36274</b>	Pool Code <b>51683</b>	Pool Name <b>RED TANK-BONE SPRING</b>
Property Code <b>9316</b>	Property Name <b>COVINGTON A FEDERAL</b>	Well Number <b>45</b>
OGRID No. <b>17891</b>	Operator Name <b>POGO PRODUCING COMPANY</b>	Elevation <b>3758'</b>

Surface Location

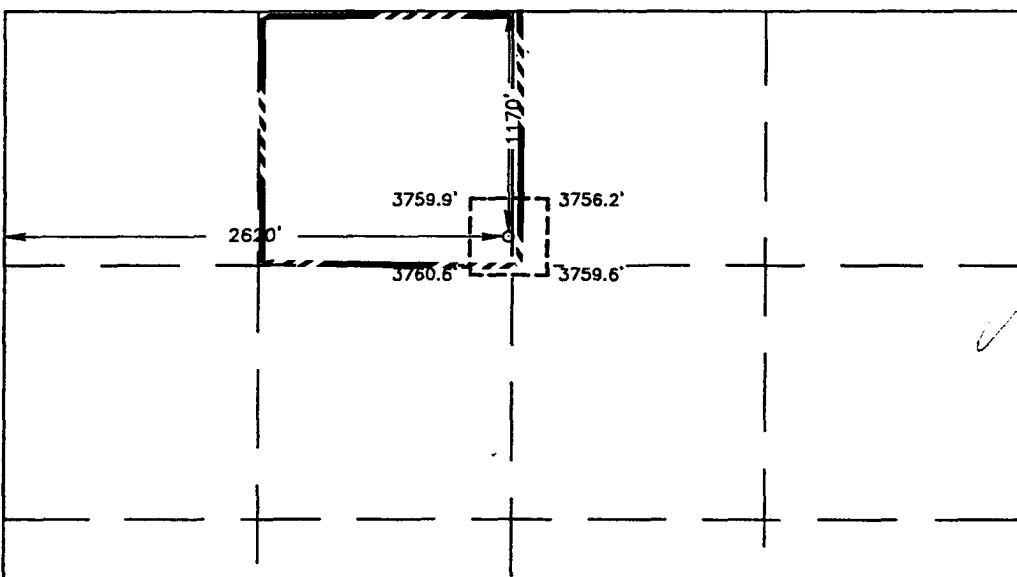
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	22-S	32-E		1170'	NORTH	2620'	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres <b>40</b>	Joint or Infill	Consolidation Code	Order No. <b>NSL-4854</b>
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature Joe T. Janica Printed Name Agent Title 01/09/03 Date</p>
<p><b>GEODETIC COORDINATES</b> NAD 27 NME Y = 497848.5 X = 717799.9 LAT. 32°22'00.22"N LONG. 103°37'40.54"W</p>	<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>DECEMBER 30, 2002</p> <p>Date Surveyed Signature &amp; Seal of Professional Surveyor <i>Ronald E. Edson</i> 12/31/02 02-11-1020 Certificate No. RONALD E. EDSON 3239 GARY EDSON 12841</p>

# APPLICATION TO DRILL

POGO PRODUCING COMPANY  
COVINGTON "A" FEDERAL # 45  
UNIT "C" SECTION 25  
T22S-R32E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 1170' FNL & 2620' FWL SEC. 25 T22S-R32E LEA CO. NM
2. Elevation above Sea Level: 3758' GR.
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
5. Proposed drilling depth: 9200'
6. Estimated tops of geological markers:

Rustler Anhydrite	905'	Cherry Canyon	5760'
Basal Anhydrite	4630'	Brushy Canyon	7020'
Delawqre Lime	4910'	Bone Spring	8730'
Bell Canyon	4920'	Upper Bone Spring Sd.	8850'
7. Possible mineral bearing formations:

Brushy Canyon	Oil
Bone Spring	Oil
Bone Spring Sand	Oil
8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17½"	0-1000'	13 3/8"	48	8-R	ST&C	H-40
11"	0-4700'	8 5/8"	32	8-R	ST&C	HCK-55 J-55
7 7/8"	0-9200'	5½"	17	8-R	LT&C	N-80 J-55

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9. CASING CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" Litecement + additives, tail in 200 Sx. of Class "C" + 2% CaCl mix at 14.8 PPG, circulate cement to surface.
8 5/8"	Intermediate	Set 500' of 8 5/8" 32# HC K-55 ST&C follow with 4200' of 8 5/8" 32# J-55 ST&C casing. Cement with 1600 Sx. of Class "C" Lite 35:65:6 POZ + additives, tail in with 200 Sx. of Class "C" cement + 2% CaCl, circulate to surface.
5 1/2"	Production	Set 9200' of 5 1/2" casing as follows: 2200' of 5 1/2" 17# N-80 LT&C, 6000' of 5 1/2" 17# J-55 LT&C, 1000' of 5 1/2" 17# N-80 LT&C casing. Cement in 2 stages with DV tool at 6000'±. Cement 1st stage with 650 Sx. of Class "H" + additives mix at 15.7PPG cement 2nd stage with 800 Sx. of Class "C" cement with 12 PPS Gilsonite, mix at 14.8 PPG estimate top of cement 3700' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nipped up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a (2") 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.

*3" Choke line & valves  
on 3m & larger*

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-1000'	8.4-8.7	29-36	NC	Fresh water Spud Mud add paper to control seepage.
1000-4700'	10.1-10.3	29-38	NC	Brine water add paper to control seepage and use high viscosity sweeps to clean hole.
4700-8600'	8.4-8.7	29-38	NC	Fresh water using high viscosity sweeps to clean hole.
8600-9200	8.4-8.7	36-38	10 cc or Less	Same as above but adding a Polymer to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

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12. LOGGING, CORING, TESTING:PROGRAM:

- A. Open hole logs: Run Dual Induction, SNP, LDT, Gamma Ray, Caliper from TD back to 4700' Casing shoe. Cased hole logs: Run gamma Ray, Neutron from 4700' Casing shoe back to surface.
- B. Rig up mud logger on hole at 6000'±.
- C. No DST's or cores are planned at this time.

13. POTENTIAL HAZARDS:

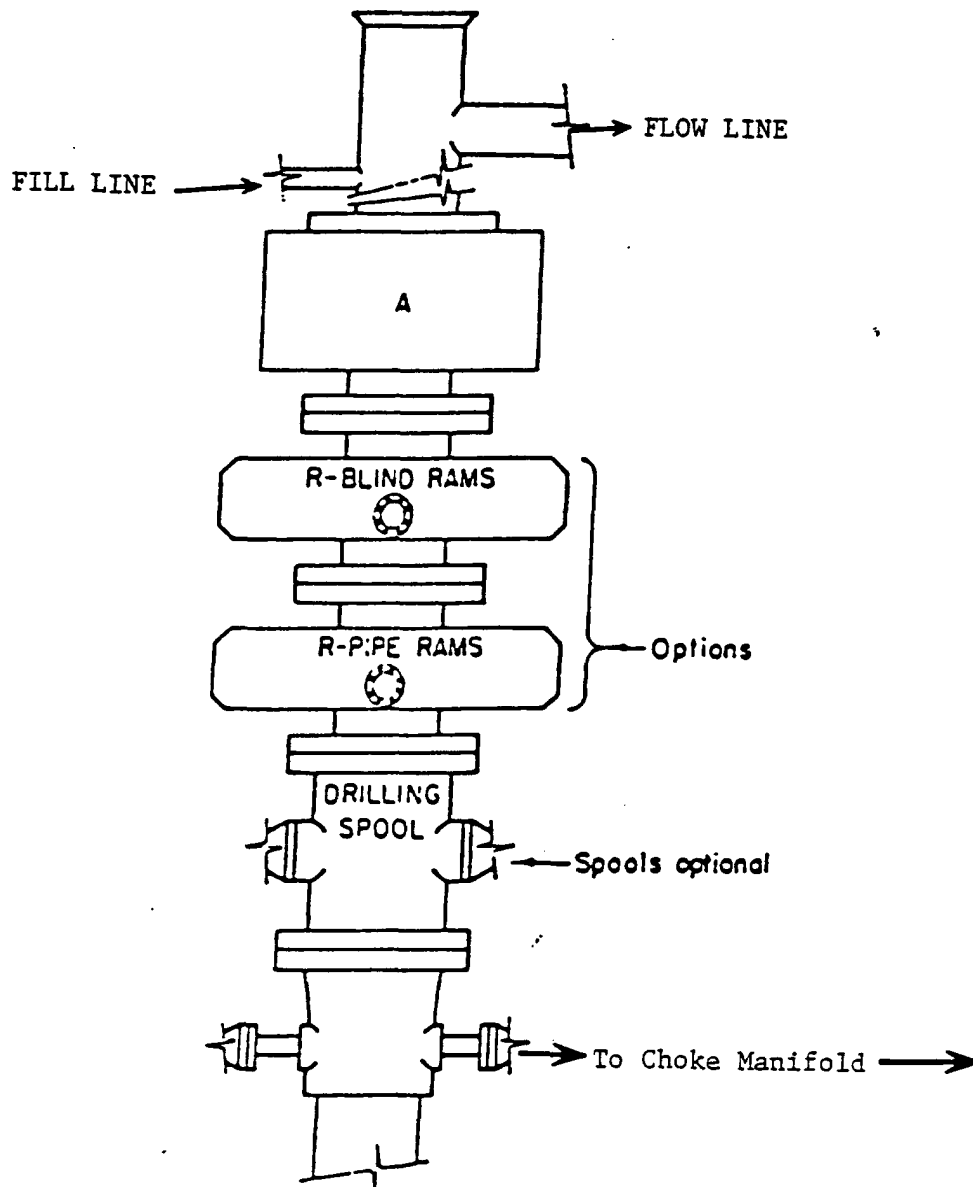
No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence of unsafe levels of H<sub>2</sub>S. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of all equipment that will be used. Estimated BHP 4600 PSI & estimated BHT 178°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Roads and location construction will begin after the BLM approves the APD. Anticipated spud date will be as soon as pad & road construction has been completed. Drilling time for the well is estimated to take 28 days. If production casing is run an additional 30 days will be required to complete well and construct surface facilities.

15. OTHER FACETS OF OPERATION:

After running production casing, cased hole Gamma-Neutron & Collar logs will be run over all possible pay intervals. If commercial production from the Bone Spring pay is indicated it will be perforated and stimulated. Then if necessary the pay will be swab tested and completed as an oil well.



# **ARRANGEMENT SRRA**

900 Series  
3000 PSI WP

EXHIBIT "E"  
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY  
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T22S-R32E LEA CO. NM